Microseismic Monitoring Tools and Services
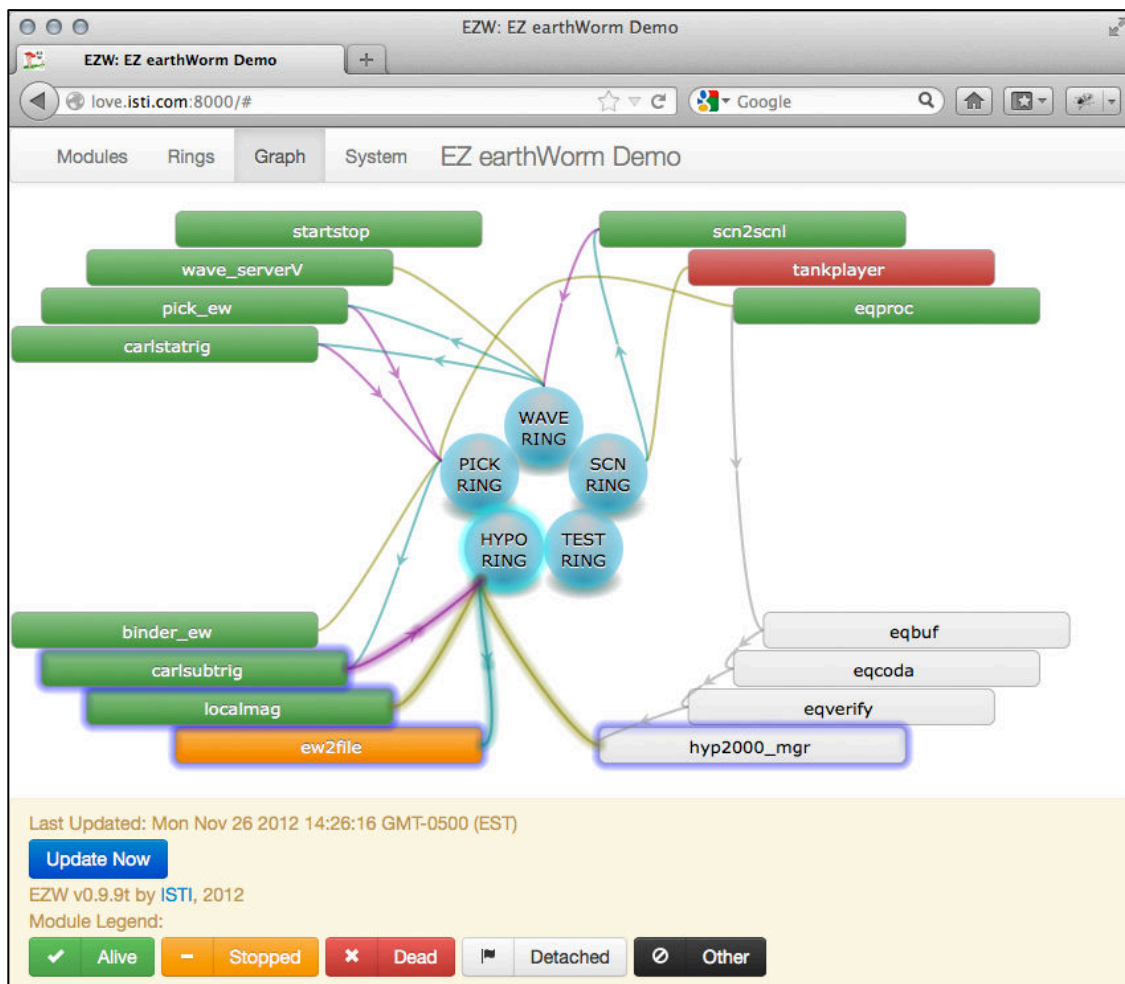
Monitoring Seismicity is our Business

Industry, academia, and government need basic no-nonsense solutions that provide complete images of the seismic activity of a region for making informed decisions about potential hazards from induced seismicity and natural or background tectonic activity. Let ISTI and our 20+ years of experience in earthquake monitoring solutions guide the development of your seismic network and analysis program.

Our focus is on:

- Solving your specific needs
- Collecting the highest quality data
- Complete coverage of the seismicity
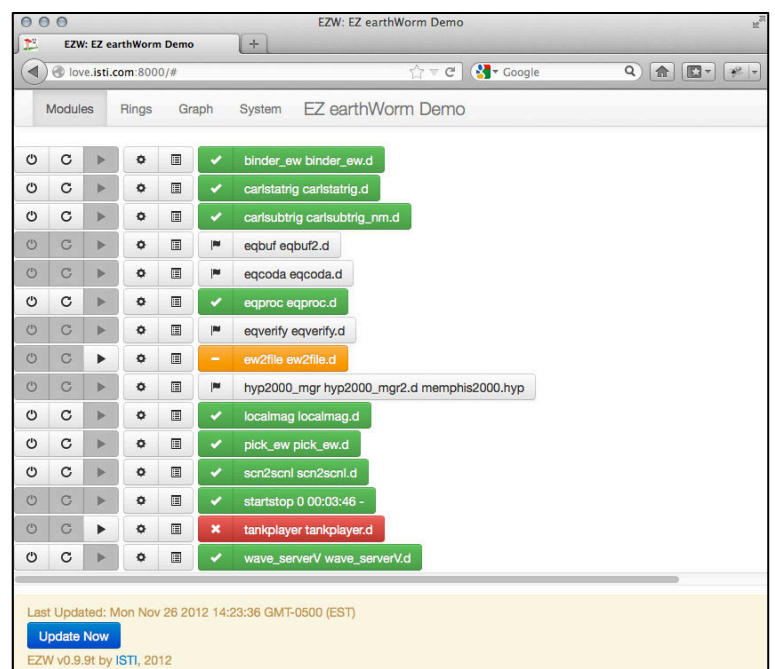- Ease of operations of the seismic network

EZW lets you Remotely Monitor and Control Seismic Network Processing from your web browser!
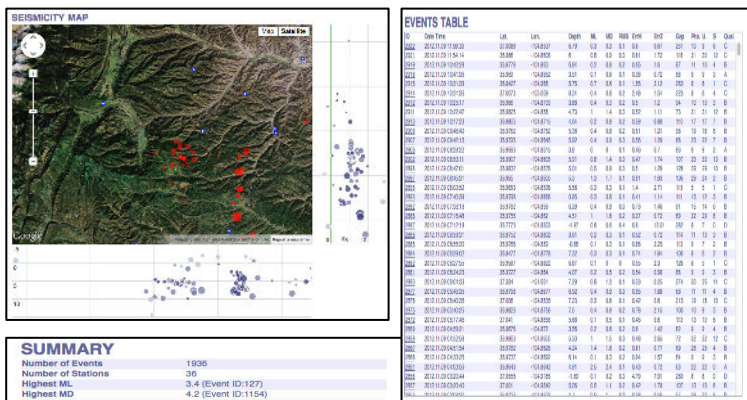

EZW = Earthquake monitoring made easy

- Web-based Real-time system management

- Configuration management
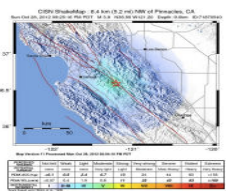
- Data Management and Visualization

ISTI's EZW system provides a complete web-based front-end to your Earthquake monitoring system configuration. Quickly assess the state of health of the processing system and easily correct problems, add stations, new modules etc.. EZW, based on the USGS developed Earthworm system, provides easy access to the advanced EW visualization tools for earthquake data.
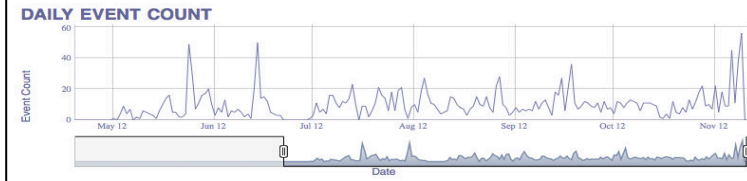
Microseismic monitoring – **EZW** is ISTI's exclusive Earthworm package that provides configuration and control, visualization, and notification. ISTI's solution is based on the USGS standard Earthworm System.
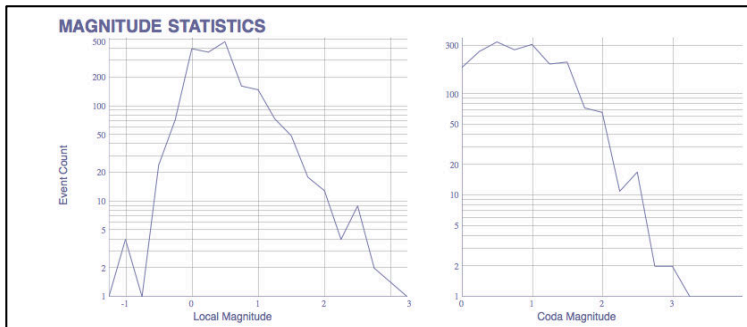

Interactive maps of seismicity – Using ISTI's EZW configuration for your network provides access to a complete Web based report of your seismicity in a map and cross-sectional view. Easily export your catalog data to Excel, Google Earth or other GIS based systems for further plotting and analysis. EZW also provides a standard feed of data to the ShakeMap system for assessing the intensity of shaking caused by larger felt earthquakes.
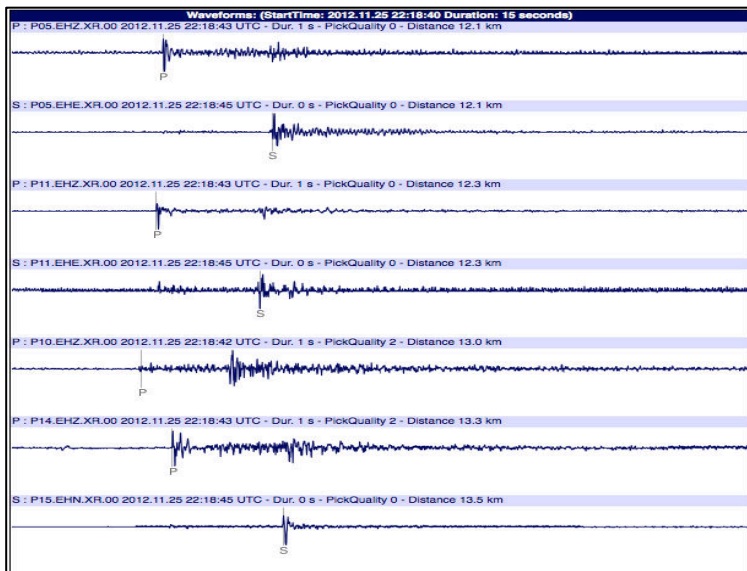

- Let ISTI configure *ShakeMap* for your network as well.

- ISTI can also develop custom modules as needed for your application/network.
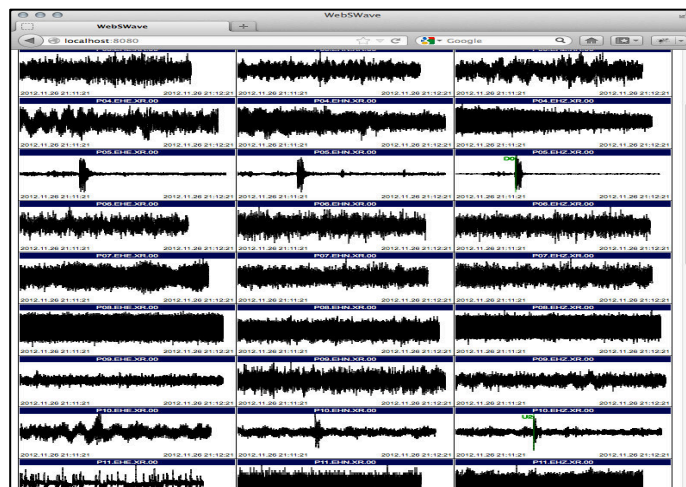
Seismicity versus time plots – quickly review the activity within your network using simple interactive charts within the web report module.
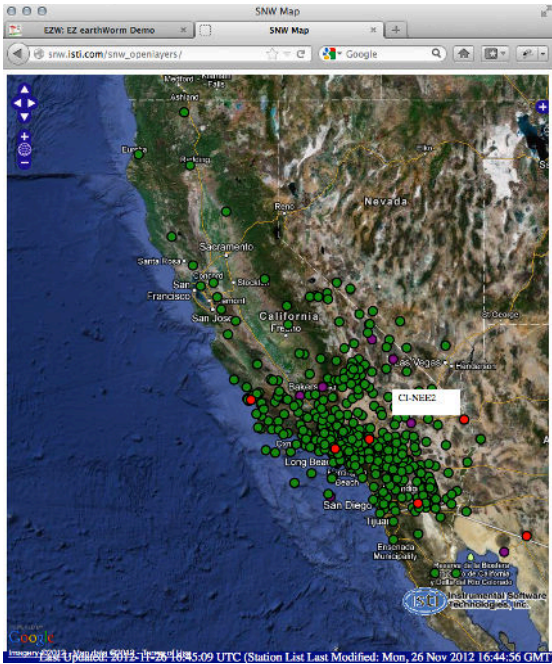
Magnitudes statistics – Plots of magnitude distribution with time and moment release curves are available. Coda and Local

Waveforms and automated alerts via SMS and email – Receive Emails containing Google map plots of earthquakes within seconds from the event being detected by EZW. The alerts can be configured to allow visualization of the seismograms as well. In addition to static plots, an operator can observe traces flowing in real-time from the system over a browser (below) and quickly detect problem stations.
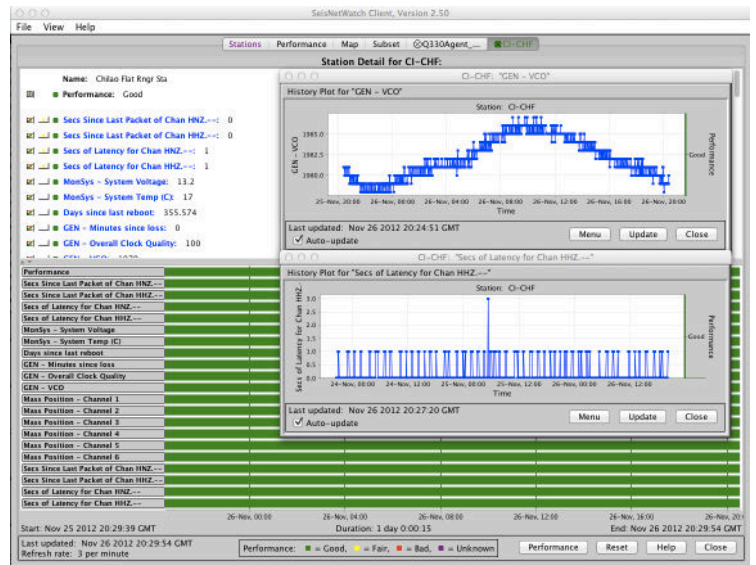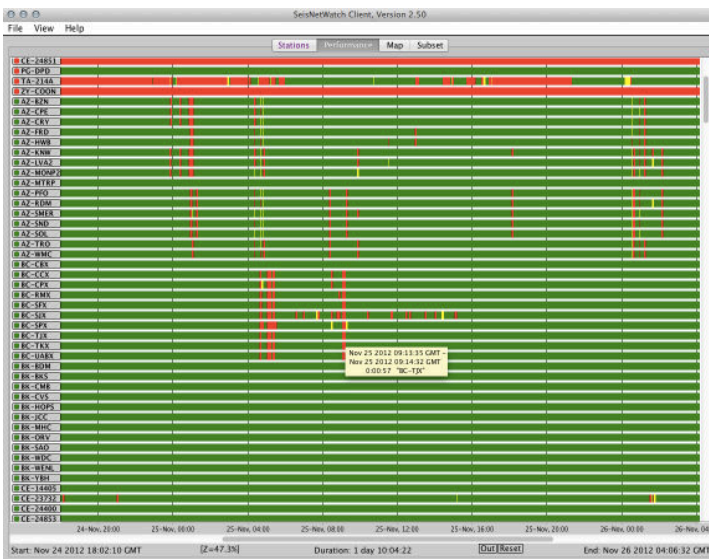
SeisNetWatch - **SNW** for State Of Health Seismic Network Monitoring – SNW provides a SOH visualization, and notification system to help operators maintain a high level of seismic network performance.

SNW allows an operator to quickly visualize the performance of their entire seismic network state of health with a glance at a web page or drill down into individual station's parameters and health.

SNW provides:
- Web based Google Map interface
- Standalone Java GUI application interface
- Monitoring of all EZW performance
- Monitoring of all modern seismic digitizers
- Email alert and reporting of performance problems and history of stations